

**Supplemental  
Notice of Allowability**

Application No.

10/018,658

Examiner

Mujtaba K. Chaudry

Applicant(s)

KAJITA, KUNIJUKI

Art Unit

2133

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/11/2006.
2. ☒ The allowed claim(s) is/are 34-51.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*ellrf* 6/21/06

ALBERT DECADY  
SUPERVISORY PATENT EXAMINER  
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### **REASONS FOR ALLOWANCE**

Claims 34-51 are allowed. The following is an Examiner's statement of reasons for allowance:

For example, independent claim 34 of the present application teaches a coding apparatus comprising: a CRC attachment unit that attaches respective CRC-bits to a plurality of transport blocks; a concatenating unit that concatenates the transport blocks having the CRC-bits to provide a concatenated transport block; a code block segmentation unit that segments the concatenated transport block into code blocks to enable the code blocks to be encoded respectively; and an error correcting coding unit that encodes each of the code blocks, wherein said code block segmentation unit adds at least one predetermined bit to the beginning of the code blocks so bit thereof and at least one of the code blocks comprise a plurality of the transport blocks. The foregoing limitations are not found in the prior arts of record. The prior art of record, namely Kato, teaches an error correcting code including of basic data and a BCH-based parity code appended thereto is divided into smaller packets. An error detecting code is appended to each of the thus-divided packets, so that transmission basic data is formed. When the transmission basic data is received, the basic data and a BCH-based parity code are derived from the transmission basic data. Error correcting is carried out with respect to the overall transmission basic data. An error detecting operation is carried out with respect to each packet using the error detecting code. If a packet is found to contain errors, a request for retransmission of that packet will be sent to the sending side. Particularly Kato, the segmentation circuit 14 divides the basic transmission data AD into a fixed length, as shown in FIG. 5b. The error detecting code addition circuit 16 appends an error detecting code to the thus-divided data segments, as shown in FIG. 5c. A CRC code is herein used as the error detecting code. The

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header addition circuit 20 further appends a packet header to each data segment complete with the CRC code, whereby a transmission data packet is generated, as shown in FIG. 5d. As described above, the packet assembly circuit 12 appends the error correcting code for ARQ purposes to the basic transmission data AD having subjected to FEC. However, upon careful reconsideration, it is the Examiner's conclusion that the prior arts of record do not teach or fairly suggest all the limitations in the independent claim 34 of the present application. In particular, the limitations of "...code block segmentation unit adds at least one predetermined bit to the beginning of the code blocks so bit thereof and at least one of the code blocks comprise a plurality of the transport blocks" are not taught or fairly suggested in the prior arts of record.

Independent claims 35, 36 and 46-48 include similar limitations of independent claim 34 and therefore are allowed for similar reasons.

Dependent claims 37-45 and 49-51 depend from independent claims 34-36 and 46-48 and inherently include limitations therein and therefore are allowed as well.

Any inquiries concerning this communication should be directed to the examiner, Mujtaba Chaudry who may be reached at 571-272-3817. The examiner may normally be reached Mon – Thur 6:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, please contact the examiner's supervisor, Albert DeCady at 571-272-3819.



Mujtaba Chaudry  
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March 3, 2006